

SOW-02-835-2-08329A-2/1

STATEMENT

OF

WORK

(SOW)

FOR IROAN OF THE

M814/M927/M927A1/M928/M928A1

5-TON TRUCKS

NSN 2320-00-050-8987

NSN 2320-01-047-8771

NSN 2320-01-206-4089

NSN 2320-01-047-8770

NSN 2320-01-206-4090

EFFECTIVE DATE: 23 January 2001

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Statement of Work For the IROAN of the
M814/M927/M927A1/M928/M928A1 5-Ton Trucks
SOW-02-835-2-08329A-2/1

1.0 Scope. This Statement of Work (SOW) establishes and sets forth tasks and identifies the work efforts that shall be performed by the contractor as minimum requirements to assemble, integrate, make fully operational, calibrate, install, test, and inspect the M814/M927/M927A1/M928/M928A1 Series 5-Ton Trucks to a serviceable condition (Condition Code "A"). Condition Code "A" is defined as "Serviceable/Issuable without qualification, new, used, repaired or reconditioned materiel which is serviceable and issuable to all customers without limitation or restriction." The National Stock Numbers (NSN's) listed here are the M814 (2320-00-050-8987), M927 (2320-01-047-8771), M927A1 (2320-01-206-4089), M928 (2320-01-047-8770), and M928A1 (2320-01-206-4090) Series 5-Ton Trucks:

1.1 Background. Inspect Repair Only As Necessary (IROAN) is defined as "That maintenance technique which determines the minimum repairs necessary to restore equipment, components, or assemblies to prescribed maintenance serviceability standards by utilizing all available diagnostic equipment and test procedures in order to minimize disassembly and parts replacement."

2.0 Applicable Documents. The following documents form a part of this SOW to the extent specified. Unless otherwise specified, the issues of these documents are those listed in the Department of Defense Index of Specifications and Standards (DODISS) and supplement thereto which is in effect on the date of solicitation. In the event of conflict between the documents referenced herein and the contents of this SOW, the contents of this SOW shall be the superseding requirement.

2.1 Military Standards

MIL-STD-129	DOD Standard Practice for Military Marking
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2.2 Military Specifications

MIL-C-81309	Corrosion Preventive Compounds, Water Displacing, Ultra Thin Film
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A-A-59295	Corrosion Preventive Compounds, Cold Application (for new and fielded motor vehicles and trailers)
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2.3 Other Government Documents and Publications

ATPD 2241	Vehicles, Wheeled: Preparation for Shipment and Storage of
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DMWR 9-2320-260	Depot Maintenance Work Requirement for M39 and M809 Series 5-Ton 6X6 Truck
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DMWR 9-2320-272	Depot Maintenance Work Requirements for M939 and
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	M939A1 Series 5-Ton 6X6 Truck (Diesel)
DMWR 9-2520-507	Depot Maintenance Work Requirements for Transfer Assembly, Timken Model T-138-10
DMWR 9-2520-508	Depot Maintenance Work Requirements for Fleet and Rear Axle Assemblies Rockwell International
DMWR 9-2520-509	Depot Maintenance Work Requirements for Transmission Assembly, Spicer Models 6352 and 6453
DMWR 9-2520-522	Depot Maintenance Work Requirement for Allison Automatic Transmission Model MT654CR
DMWR 9-2520-530	Depot Maintenance Work Requirements for Transfer Assembly Model T-1138-1
DMWR 9-2815-500	Depot Maintenance Requirement for Engine Assembly, Diesel NHC-250 Cummins
DMWR 9-3830-501	Winch Assembly for Truck 5-Ton
DOD 4000.25-1-M	MILSTRIP Manual
TC 9-510	Metal Body Repair and Related Operation
LO 9-2320-260-12	Truck 5-Ton M809 Series 6X6
LO 9-2320-272-12	Truck 5-Ton M939 Series 6X6
MI-2320-25/73	Installation of Seat Belts in the 5-Ton, M939/M939A1 Series Trucks
MI-2320-30/52	Installation of the International Standards Organizations Cargo Body on M809, M939 and M939A1 Series Trucks
MI-2320-35/71	Installation of Seat Belts in the 2 1/2 Ton, M44 and 5-Ton, Series Trucks
MI-2320-25/79	Installation of Brake Valve Kit in the 5-Ton, M939/M939A1 Series Trucks
MI-11240-24/18B	Installation Fire Extinguisher Bracket TMT Vehicle
NAVICPINST 4491.2A	Requisitioning of Contractor Furnished Materiel

From the Federal Supply System

TB 9-2300-245-50	Wheeled Transport Vehicles: Chassis Dynamometer Procedures and Test Standards Under Simulated Load Conditions
TB 9-2300-247-40	Tactical Wheel Vehicles Repair of Frames
TB 43-0213	Corrosion Prevention and Control
TI-5820-25/22	Electromagnetic Environmental Effects (E3) Procedures for Installation of Communication Equipment on U.S. Marine Corps Platforms
TM 9-2320-260-10 W/CH 1-3	Truck 5-Ton 6X6 M809 (Diesel)
TM 9-2320-260-20	Truck 5-Ton 6X6 M809 (Diesel)
TM 9-2320-260-20P	Truck 5-Ton 6X6 M809 (Diesel)
TM 9-2320-260-34-1	Truck 5-Ton 6X6 M809 (Diesel)
TM 9-2320-260-34-2	Truck 5-Ton 6X6 M809 (Diesel)
TM 9-2320-260-34P-1&2	Truck 5-Ton 6X6 M809 (Diesel)
TM 9-2320-272-10 W/CH1-4&A	Truck 5T 6X6 M939 & A1 (Diesel)
TM 9-2320-272-24-1 THRU 4	Truck 5T 6X6 M939 Series (Diesel)
TM 9-2320-272-24P-1&2	Truck 5T 6X6 M939 Series (Diesel)
TM 9-2610-200-14	Organizational Direct Support and General Support Maint, Care, Maint, and Repair of Pneumatic Tires and Inner Tubes
TM 9-2920-225-34	Generator Engine Assembly AC-Gen Reg Assy
TM 9-2920-225-34P	Generator AC MOD AMA-5102UT/3002AC
TM 9-4910-571-12&P	Simplified Test Equipment for Internal Combustion Engines Reprogrammable (STE/ICE-R)
TM 9-6140-200-14	Operator's Organizational Direct Support, and General Support Maintenance Manual for Lead-Acid Storage Batteries

TM 750-254 W/CH 1-2	Cooling Systems: Tactical Vehicles
TM 4750-15/1 W/CH1-2 SUP	Painting Registration Markings
TM 4750-15/2 W/CH 1-2	Camouflage Paint Patterns
8736866	Equipment Preservation Data Sheet (EPDS) (Truck, Cargo, 5Ton, 6X6, M814)
8736987-2	Equipment Preservation Data Sheet (EPDS) (Truck, Cargo, 5Ton, 6X6, M927)
8750155	Equipment Preservation Data Sheet (EPDS) (Truck, Cargo, 5Ton, 6X6, M927A1)
8736987-1	Equipment Preservation Data Sheet (EPDS) (Truck, Cargo, 5Ton, 6X6, M928)
8750156	Equipment Preservation Data Sheet (EPDS) (Truck, Cargo, 5Ton, 6X6, M928A1)

Military Handbooks (For Guidance)

MIL-HDBK-61	Configuration Management Guidance
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2.4 Industry Standards

ANSI/ISO/ASQC Q9002-1994	Quality Systems-Model for Quality Assurance in Production, Installation, and Servicing
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Industry Standards (For Guidance)

ANSI/EIA-649	National Consensus Standard for Configuration Management
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Copies of Military Standards and Specifications are available from the DOD Single Stock Point, Document Automation and Production Service, Building 4/D, 700 Robbins Avenue, Philadelphia, Pa. 19111-5094, Telephone (215) 697-2179 or DSN 442-2179, or <http://www.dodssp.daps.mil>. Copies of other government documents and publications required by contractors in connection with specific SOW requirements shall be obtained through the Contracting Officer: Commander, Attn: Contracting Officer (Code 891), Marine Corps Logistics Bases, 814 Radford Blvd., Albany, Georgia 31704-1128, commercial telephone number (229) 639-6761 or DSN 567-6761. Copies of engineering drawings, if applicable, shall be obtained from Life Cycle Management Center, Attn: Code 851-3, 814 Radford Blvd. Suite 20320, Albany, Georgia 31704-0320, commercial telephone number (229) 639-6410 or DSN 567-6410.

3.0 Requirements

3.1 General Tasks

3.1.1 In fulfilling the specified requirements, the Contractor shall render, yet shall not be limited to the following tasks:

a. Provide materials, labor, facilities, repair parts and missing parts necessary to inspect, diagnose, restore, test and calibrate as required the M814/M927/M927A1/M928/M928A1 Series 5-Ton Trucks. Upon completion of IROAN, repaired vehicles shall be Condition Code "A".

b. Provide all tools and test equipment required to test, inspect, and calibrate the M814/M927/M927A1/M928/M928A1 Series 5-Ton Trucks.

c. Conduct final-on-site testing, which will be witnessed by Marine Corps Logistics Bases (MCLBA), Albany, Georgia (835-2) representative.

d. Be responsible for all structural, electrical, and mechanical requirements associated with the IROAN and restoration of the M814/M927/M927A1/M928/M928A1 Series 5-Ton Trucks.

3.2 Detailed Tasks. Detailed tasks shall be as defined by the following paragraphs.

3.2.1 Phase I - Pre-Induction

a. The contractor shall conduct a pre-induction inspection analysis for every vehicle to be IROANed under the provisions of this SOW using the contractor facility diagnosis, inspection, and testing techniques to determine extent of work and parts required. These findings shall be annotated on the Pre-Induction Inspection Sheet located in Appendix A.

b. Test equipment shall be used to determine that assemblies and subassemblies meet prescribed reliability, performance and work requirements. In those cases when conformance to the SOW cannot be certified through existing inspection and testing procedures and by use of diagnostic equipment, the assembly shall be removed, disassembled, inspected, tested or repaired to the degree necessary to assure full conformance with this SOW.

c. Oil seal and gasket leakage. Evidence of lubricating or hydraulic oils passing through or around a seal is in itself not a defect; however, consideration must be given to the fluid capacity in the item being checked/inspected. Inspection shall normally be performed during and immediately following an operational test, but not sufficient duration to allow the fluids to return to ambient temperature. The following shall be used as a guide in determining degree of oil loss:

(1) Class I - Seepage of fluid (as indicated by wetness or discoloration) not great enough to form drops.

(2) Class II - Leakage of fluid great enough to form drops, but not enough to cause drops to fall from the item being checked/inspected.

(3) Class III - Leakage of fluid great enough to form drops that fall from the item being checked/inspected.

NOTE

A Class I or II leak, except fuel system and brake system, is an acceptable condition at any time and does not require corrective action.

3.2.2 Phase II - IROAN. IROAN shall be performed at the contractor's facility. Information recorded on the IROAN Pre-Induction Inspection Sheets during pre-inspection phase shall be used as a guide by the contractor to achieve the mechanical baseline of production M814/M927/M927A1/M928/M928A1 Series 5-Ton Trucks. The following efforts shall be performed as part of the IROAN:

a. Detailed Mechanical Rework - Vehicles received for IROAN shall be reworked in accordance with the following paragraphs. All discrepancies noted on the IROAN Pre-Induction Inspection Sheets shall be repaired/replaced.

b. Hardware

(1) Replace broken, unserviceable and/or missing hardware including nuts, bolts, screws, washers, turn lock fasteners, etc., in accordance with TM 9-2320-260-20P, TM 9-2320-260-34P-1&2, and TM 9-2320-272-24P-1&2. Unserviceable would include any of the above that failed to function properly.

(2) Insure that proper hardware locking devices are present on all moving mechanical assemblies.

(3) Hardware normally supplied with commercial parts shall be used unless specifically prohibited.

NOTE

The requirement for separating the engine and transmission assemblies and running them on their independent dynamometers will be adhered to, unless during the pre-induction inspection, a chassis dynamometer test was performed and the engine and transmission passed performance specifications. If engine or transmission fail to meet performance specifications, then procedures will be followed as written.

c. Engine Assembly

(1) TEST PROCEDURES. After all pre-induction tests and inspections have been completed, the power pack shall be removed from the vehicle, steam cleaned, and inspected for loose or missing items. The engine assembly shall be separated from the transmission assembly. The transmission shall be processed in accordance with paragraph 3.2.2g. The engine assembly shall be attached to an engine dynamometer and the engine run-in test shall be performed at this time. Refer to paragraph 3.2.2d for the test procedures for the fuel system which shall be tested in conjunction

with the engine test. Record all results of this test on the Dynamometer Run-In Schedule, Appendix C.

(2) PASS/FAIL. After the engine run test has been finished, the completed Engine Dynamometer Run-in Schedule shall be compared with the acceptable operating specifications for the NHC 250 Cummins Engine. The engine assembly shall meet or exceed the minimum specifications to be considered as having passed. In the event the engine assembly fails to meet the specifications, further tests shall be performed in accordance with the Engine Dynamometer Run-in Schedule. Reference the IROAN Pass/Fail Logic Chart - Engine Assembly.

Change the engine oil and filter on all vehicles 100 percent.

NOTE

All fording valves shall be wired in the open position.

The above procedures for repair/replacement can be found in DMWR 9-2815-500, TM 9-2320-260-34-1, TM 9-2320-260-34P-1, TM 9-2320-272-24-1 THRU 4, and TM 9-2320-272-24P-1&2.

d. Fuel System

(1) TEST PROCEDURES. Test all fuel injectors during the dynamometer engine run-in test.

(a) Inspect the fuel pump assembly for loose or broken items and housing cracks. During the dynamometer engine run-in test, assure that the fuel pump is properly timed.

(b) Inspect the fuel primer pump for leakage.

(c) Inspect the air cleaner indicator for proper function.

(d) Inspect fuel tank and lines for rusting and leakage.

(e) Inspect ether cold starting system switch, cylinder valve, pressure switch, thermal close valve/bushing, and atomizer cylinder for proper function and cracked/leaking tubing (M939 Series only). (M809 Series only). Inspect engine cold starting switch, wiring and pre heater.

(f) Inspect accelerator pedal and linkage for binding and proper function.

(g) Inspect air cleaner assembly for corrosion, damage and leaking.

(2) PASS/FAIL. Repair/Replace injectors that do not pass the dynamometer engine run-in test.

(a) Repair/Replace any fuel pump assembly that does not pass the dynamometer engine run-in test.

free of leaks.

(b) Replace the fuel primer pump if leaking. Assure that the pump is secure and

(c) Replace the air indicator if not functioning properly.

(d) Repair/Replace any fuel tank and lines that are rusting and leaking.

(e) Repair/Replace the ether cold starting system switch, cylinder valve, pressure switch, thermal close valve/ bushing, and atomizer cylinder that does not function properly. Repair/Replace any cracked/leaking tubing (M939 Series only). (M809 Series only). Repair/Replace engine cold starting system switch, wiring, and pre heater that does not function properly.

(f) Repair/Replace the throttle linkage if binding. Replace all broken or bent accelerator pedals. Replace all broken and distorted springs.

(g) Repair/Replace any hose, tube, and clamp that is leaking, damaged, or stripped.

(h) Replace all fuel filters and air filters 100 percent.

The above procedures for repair/replacement can be found in TM 9-2320-260-34-1, TM 9-2320-260-34P-1, TM 9-2320-260-10 W/CH 1-3, TM 9 2320-272-24-1 THRU 4, TM 2320-272-24P-1&2, and TM 9-2320-272-10 W/CH1-4&A.

e. Cooling System

(1) TEST PROCEDURES. Inspect hose clamps for tightness.

(a) Inspect surge tank and cap for leaks.

(b) Inspect water manifold for leaks.

(c) Inspect thermostat housing for leaks.

(d) Inspect engine oil cooler for leaks.

(e) (M939 Series only). Inspect transmission oil cooler for leaks.

(f) Inspect fan blades for breaks, bends, and missing rivets.

(g) Inspect water pump for leaks and cracks.

(h) Inspect fan clutch for unusual noises.

(i) Inspect fan shroud for breaks or cracks.

(j) Inspect air compressor coolant lines for leaks and cracks.

(2) PASS/FAIL. Replace any hose clamp that shall not remain secure.

(a) Repair/Replace surge tank and/or cap if leaking.

(b) Replace "O" rings on the water manifold if leaking.

(c) Replace thermostat and gaskets 100 percent. Replace all cracked thermostat housings.

(d) Replace the engine oil cooler element and all "O" rings and gaskets as required. Replace oil cooler housing if broken/cracked or threads are stripped.

(e) (M939 Series only). Replace transmission oil cooler assembly as required. Replace transmission oil cooler if leaking. Replace transmission oil cooler hoses and/or "O" rings if leaking.

(f) Repair/Replace the fan blade if it is broken, bent, and rivets are missing.

(g) Repair/Replace the water pump if it is leaking or the housing is cracked and unusual noises are discovered.

(h) Replace the fan clutch if unusual noises are detected.

(i) Repair/Replace the fan shroud if it is broken.

(j) Repair/replace any air compressor coolant line that is leaking or cracked.

(k) Reverse flush, clean, and inspect the radiator and heater core 100 percent (repair as required). Straighten all bent fins that can be straightened. Retest the radiator and heater core for pressurization. It shall hold 15 PSI for three minutes without evidence of leakage or structural failure. Inspect the gaskets on the left and right sides of the radiator core for leaks. Flow test the radiator and heater core by pumping water through it.

(l) Replace coolant, coolant belts, radiator, and heater hoses 100 percent. Replace antifreeze protection to a temperature of -20 degrees Fahrenheit 100 percent.

The above procedures for repair/replacement can be found in TM 9-2320-260-20, TM 9-2320-260-20P, TM 9-2320-260-34-1, TM 9-2320-260-34P-1&2, TM 9-2320-272-24-1 THRU 4, TM 9-2320-272-24P-1&2, and TM 750-254 W/CH 1-2.

f. Electrical System

NOTE

All trucks for IROAN shall not have batteries installed. Install batteries before testing the electrical system.

(1) TEST PROCEDURES. Inspect all wiring harnesses, battery cables, North Atlantic Treaty Organization (NATO) slave receptacle, trailer receptacle, Simplified Test Equipment for Internal Combustion Engines Reprogrammable (STE/ICE-R) receptacle, and components for corrosion, bent or missing pins, and ripped or torn insulation and tie wraps.

(a) Test the alternator, starter, and protective control box, with the Government Furnished Equipment (GFE) STE/ICE-R test equipment.

(b) Inspect instrument panel gauges for proper operation.

(c) Inspect headlights, blackout lights, amber warning light, turn signals, rear composite lights, floodlights, side marker lights, reflectors, and instrument panel lights for cracks, corrosion, moisture, broken and blown bulbs.

(d) (M939 Series only). Inspect instrument sending units, primary and secondary low air pressure/warning alarm buzzer switch, spring brake pressure switch, front wheel drive lock-in switch, transmission neutral start switch, horn switch, horn, horn button, ether cold start switch, emergency engine stop control, hand throttle control cable, heater blower motor switch, turn signal switch, amber warning light switch, headlight switch, dimmer switch, battery switch, circuit breakers, heater blower motor, stop light switch, wiper switch, washer switch, and ignition switch for proper operation.

(e) (M809 Series only). Inspect instrument sending units, low air pressure warning alarm buzzer switch, horn switch, horn, horn button, cold starting system switch, emergency engine stop control, heater blower motor switch, hand throttle control cable, turn signal switch, amber warning light switch, headlight switch, heater blower motor, stop light switch, wiper switch, washer switch, and ignition switch for proper operation.

(2) PASS/FAIL. Repair/Replace all missing and bent pins. Repair of insulation less than four inches in length may be accomplished using electrical tape. Tears or rips in excess of four inches will require installation of new conduit. Corrosion shall be removed from components. Upon removal of corrosion, if component does not function properly, replace component. Repair/Replace all damaged battery cables, NATO slave receptacle, trailer receptacle, and STE/ICE-R receptacle. Replace any missing or damaged tie wraps.

(a) Repair/Replace the starter, alternator, and protective control box assembly that do not pass the STE/ICE-R or other commercial tests. Install new dry batteries 100 percent.

(b) Replace any gauge or switch that does not function properly after assuring that the sending unit is not defective.

(c) Replace broken headlights, amber warning light, blackout light/lenses, turn signal light/lenses, floodlights, side marker lights/lenses, reflectors, and rear composite light/lenses. Also replace any blown bulb in the instrument panel and lighting system. Correct moisture in the

lighting system by replacing the light cover gasket. Replace any light assembly that was found missing during the pre-induction of the vehicle.

(d) (M939 Series only). Replace any sending unit that does not function properly. Replace any primary and secondary low air pressure switch/warning alarm buzzer, spring brake pressure switch, front wheel drive lock-in switch, transmission neutral start switch, horn switch, horn, horn button, ether cold start switch, emergency engine stop control, hand throttle control cable, heater blower motor switch, parking brake switch, turn signal switch, amber warning light switch, headlight switch, dimmer switch, battery switch, circuit breakers, heater blower motor, stop light switch, wiper switch, washer switch, and ignition switch that does not function properly.

(e) (M809 Series only). Replace any sending unit that does not function properly. Replace low air pressure warning alarm buzzer switch, horn switch, horn, horn button, cold starting system switch, emergency engine stop control, heater blower motor switch, hand throttle control cable, turn signal switch, amber warning light switch, headlight switch, heater blower motor, stop light switch, wiper switch, washer switch, and ignition switch that does not function properly.

NOTE

Do not install or procure ether bottle for cold starting system.

The above procedures for test/repair or replacement can be found in TM 9-2320-260-20, TM 9-2320-260-20P, TM 9 2320-272-24-1 THRU 4, TM 9-2320-272-24P-1&2, TM 9-6140-200-14, TM 9-4910-571-12&P, TM 9-2920-225-34, and TM 9-2920-225-34P.

g. Transmission

(1) TEST PROCEDURES. (M939 Series only). After pre-induction tests and inspections have been completed, the power pack assembly shall be removed from the vehicle, cleaned, and inspected for loose or missing items. The transmission assembly shall be separated from the engine assembly. The transmission assembly shall be attached to a transmission dynamometer and the transmission dynamometer tests shall be performed at this time. All applicable data shall be recorded at this time. All applicable data shall be recorded on the Hicklin Dynamometer Run Sheet MT-654 Transmission, Appendix D. If the contractor does not have a Hicklin Dynamometer, refer to DMWR 9-2520-522 for dynamometer requirements.

(a) Inspect the transmission torque converter for proper function.

(b) Inspect the transmission selector lever assembly cable and linkage for binding and proper operation.

(2) PASS/FAIL. Upon completion of the transmission assembly dynamometer run-in test, the data recorded shall be compared with the required specifications. The transmission assembly shall meet or exceed the minimum specifications to be considered as having qualified for reinstallation in a vehicle. In the event the transmission fails the testing, it shall be repaired prior to

installation in a vehicle. The transmission oil, filter, and oil pan gasket shall be replaced on all transmissions 100 percent.

(a) Repair/Replace the transmission torque converter as required to ensure proper function.

(b) Repair/Replace the transmission selector lever assembly if it does not operate smoothly. Replace all broken cables. Repair/Replace any linkage part that does not function properly.

(3) TEST PROCEDURES. (M809 Series only). After pre-induction tests and inspections have been completed, the power pack assembly shall be removed from the vehicle, cleaned and inspected for loose or missing items. The transmission assembly shall be separated from the engine assembly. The transmission assembly shall be attached to a transmission dynamometer and the transmission dynamometer tests shall be performed at this time. All applicable data will be recorded at this time. All applicable data shall be recorded on the Hicklin Transmission Dynamometer Run Sheet. If the contractor does not have a Hicklin Dynamometer, refer to DMWR 9-2520-509 for dynamometer requirements. The transmission dynamometer run sheet shall be maintained and be available to the MCLB Albany, representatives.

(a) Inspect the transmission housing for cracks, and evidence of overheating.

(b) Inspect the transmission shifter for binding and proper operation.

(4) PASS/FAIL. Upon completion of the transmission assembly dynamometer run-in test, the data recorded shall be compared with the required specifications. The transmission assembly shall meet or exceed the minimum specifications to be considered as having qualified for reinstallation in a vehicle. In the event the transmission fails the testing, it shall be repaired prior to installation in a vehicle. The transmission gear oil shall be replaced on all transmissions 100 percent.

(a) Repair/Replace the transmission housing if cracked.

(b) Repair/Replace the transmission shifter if it does not operate smoothly.

The above procedures for repair/replacement can be found in DMWR 9-2520-509, DMWR 9-2520-522, TM 9-2320-260-34-1, TM 9-2320-260-34P-1, TM 9-2320-272-24-1 THRU 4, and TM 2320-272-24P-1&2.

h. Transfer Case

(1) TEST PROCEDURES. Inspect transfer case for cracks, and leakage. Metal chips in the oil are not acceptable. Inspect for vibration, unusual noises and proper function in all gear positions with no indication of overheating.

(a) Inspect transfer shift lever and linkage for proper operation.

- (b) Inspect transfer mounts for deterioration.
- (c) Inspect transfer control valve for proper operation.
- (d) Inspect the transfer output shaft for excessive up and down play.

(2) PASS/FAIL. Replace cracked housing. If the transfer shows signs of leakage, it shall be repaired. The transfer shall function properly in all gear positions with no indication of overheating. Under operating conditions, the transfer shall be free of vibration or unusual noises. Metal chips in the oil are not acceptable and evidence of same shall be cause for complete disassembly, inspection, and repair. The transfer case oil shall be replaced 100 percent.

- (a) Repair/Replace the transfer shift lever and linkage if binding and not locking in all operating positions.
- (b) Replace transfer mounts if deteriorated or missing.
- (c) Replace transfer control valve if not operating properly.
- (d) Repair/Replace transfer output shaft that has more than .013 play, measured with a dial indicator.

NOTE

Contractor shall install a tag on the steering wheel that reads, "DO NOT SHIFT TRANSMISSION INTO REVERSE WHILE TRANSFER CASE IS IN LOW RANGE." Ensure tag is water resistant.

The above procedures for repair/replacement can be found in TM 9-2320-260-34-1, TM 9-2320-260-34P-1, TM 9-2320-272-24-1 THRU 4, TM 9-2320-272-24P-1&2, DMWR 9-2520-507, DMWR 9-2520-530, LO 9-2320-260-12, and LO 9-2320-272-12.

i. Clutch Assembly (M809 Series only)

(1) TEST PROCEDURES. Inspect cover plate for rust, corrosion, nicks, burrs, and deformation. Check cover plate for collapsed, broken or cracked springs. Inspect friction plate for rust, corrosion, nicks, burrs, and deformation. No looseness allowed in rivets and linings. No distortion allowed in splines. Inspect bearing for nicks, burrs, looseness, galling, and heat discoloration.

- (a) Inspect clutch lever actuating link rod assembly for binding and proper function.
- (b) Inspect clutch pedal return spring for proper operation.
- (c) Inspect clutch pedal free travel for proper operation.

(2) PASS/FAIL. Repair/Replace cover plate assembly to ensure proper operation. Maximum warpage allowed on cover plate surface is .004 inch. Friction plate minimum wear limit thickness is .411 inch. Replace bearing that shows evidence of overheating, galling, or looseness.

- (a) Repair/Replace clutch lever actuating rod assembly if not operating properly.
- (b) Replace clutch pedal return spring if defective.
- (c) Adjust clutch pedal free travel as required.

The above procedures for repair/replacement can be found in TM 9-2320-260-20, TM 9-2320-260-34-2, TM 9-2320-260-34P-1, and DMWR 9-2815-500.

j. Front and Rear Axle Assemblies

(1) TEST PROCEDURES. Inspect axle assemblies for cracks and leakage. Metal chips in the oil are not acceptable.

- (a) Inspect the axle differential carriers for proper operation.
- (b) Inspect machine surfaces of steering knuckle joints for rust, damage, and leakage. Inspect steering knuckle boots and bearing for smooth operation and signs of leakage.
- (c) Inspect axle vent valve for proper function.

(2) PASS/FAIL. Replace all cracked housings. Repair all leaks. Metal chips in the oil are not acceptable and evidence of same shall be cause for complete disassembly, inspection, and repair. The front and rear axle assemblies shall have oil replaced 100 percent.

- (a) Repair/Replace an axle differential carrier that shows evidence of unusual noise, vibration or overheating.
- (b) Replace bent steering knuckles and noisy bearings. Outer machined surfaces of steering knuckle joints (live front axle) shall be free of rust or other damage. All bearings shall operate smoothly. All torn boots and leaking seals shall be replaced.
- (c) Replace axle vent valve if not functioning properly.

The above procedures for repair/replacement can be found in TM 9-2320-260-34-1, TM 9-2320-260-34-2, TM 9-2320-260-34P-1, TM 9-2320-272-24-1 THRU 4, TM 9 2320-272-24P-1&2, LO 9-2320-260-12, LO 9-2320-272-12, and DMWR 9-2520-508.

k. Brake System

(1) TEST PROCEDURES. (M939 Series). Inspect brake linings and brake drums for wear.

(a) Inspect all fail safe brake chambers and air brake chambers for leaks, damage, and missing cage bolts.

(b) Inspect all brake hoses for leaks.

(c) Inspect spider assembly for wear.

(d) Inspect parking/hand brake assembly for proper function.

(e) Inspect parking/hand brake lining for wear.

(f) Inspect wheel bearings and seals for galling and leaks.

(g) Inspect air reservoir tanks for leaks and rust.

(h) Inspect spring brake dash control valve, brake relay valves (front and rear), wet reservoir safety valve, air reservoir check valve, limiting valve, front axle control valve, spring parking brake valve, air bleeder valves, brake treadle valve, air governor valve, alcohol evaporator, check valves, and air compressor for leaks and proper operation.

(i) Inspect all air brake lines for cracks and leaks.

(j) Inspect front and rear glad hands for hardened, cracked, and missing grommets.

(k) Inspect front and rear glad hand ball valves for leaks and proper function.

(l) Inspect brake proportioning valve for proper operation.

(2) PASS/FAIL. (M939 Series). Repair/Replace brake linings that do not have at least 50 percent of original thickness remaining. Replacement of brake linings shall be done on the right and left side brake assemblies. Minor heat cracks which do not extend to outer edge of drum are acceptable. Drums shall not be cracked or distorted. Concentricity of drums shall not exceed .012 inch. Maximum allowable increase in drum diameter (over original) shall not exceed 0.125 inch. Refinished drums which are machined to maximum allowable diameter are acceptable if remaining scores do not exceed 1/32 inch. Oversize drums shall be stamped on outer face of drum just above and between two studs on finished drums.

(a) Repair/Replace fail safe brake chambers and air brake chambers that are leaking or show visual damage. Replace missing cage bolts.

(b) Replace leaking or damaged brake hoses.

(c) Repair/Replace spider assemblies showing signs of abnormal wear or cracks.

(d) The parking/hand brake shall be complete with all linkage in a serviceable condition and properly adjusted.

(e) Parking/hand brake lining shall have at least 50 percent of original thickness remaining or they must be replaced. No evidence of grease or oil shall be on the parking brake lining.

(f) Replace wheel seals which show evidence of leakage. Replace wheel bearings and races which show evidence of overheating, galling, flaking, or other damage.

(g) Repair/Replace all air reservoir tanks showing evidence of leaks, cracks, or other damage. Repair/Replace air reservoir tank support brackets that are cracked, broken, or otherwise damaged.

(h) Repair/Replace the spring brake dash control valve, brake relay valves (front and rear), wet reservoir safety valve, air reservoir check valve, limiting valve, front axle control valve, spring parking brake valve, air bleeder valve, brake treadle valve, air governor valve, alcohol evaporator, check valves, and air compressor if leaking and not operating properly.

(i) Replace brake lines if cracked or leaking. Brake lines will be of current diameter and length and free of kinks or flat sections. Fitting and nut shall not be distorted to the extent that they cannot be properly tightened.

(j) Replace front and rear glad hand grommets when they are hard, cracked, or missing.

(k) Replace front and rear glad hand ball valves that are leaking and not functioning properly.

(l) Repair/Replace brake proportioning valve as required.

NOTE

Ensure new Brake Proportioning Valve Kit has been installed.

The above procedures for repair/replacement can be found in TM 9-2320-272-24-1 THRU 4, TM 9-2320-272-24P-1&2 and MI-2320-25/79.

(3) TEST PROCEDURES. (M809 Series). Inspect brake linings and brake drums for wear.

(a) Inspect all brake hoses and fittings for leaks.

(b) Inspect parking/hand brake assembly for proper function.

(c) Inspect parking/hand brake lining for wear.

(d) Inspect wheel bearings and seals for galling and leaks.

- (e) Inspect air reservoir tanks for leaks and rust.
 - (f) Inspect all air brake lines and fittings for cracks and leaks.
 - (g) Inspect front and rear glad hands for hardened, cracked, and missing grommets.
 - (h) Inspect front and rear glad hand ball valves for leaks and proper function.
 - (i) Remove and inspect air pack assembly, master cylinder and wheel cylinders for leaks and proper operation.
 - (j) Inspect brake linkage and return spring for proper operation.
 - (k) Inspect air compressor for leaks and proper operation.
- (4) PASS/FAIL. (M809 Series). Repair/Replace brake lining that does not have at least 50 percent of original thickness remaining. Replacement of brake lining shall be done on the right and left side brake assemblies. Minor heat cracks which do not extend to outer edge of drum are acceptable. Drums shall not be cracked or distorted. Concentricity of drums shall not exceed .012 inch. Maximum allowable increase in drum diameter (over original) shall not exceed 0.125 inch. Refinished drums which are machined to maximum allowable diameter are acceptable if remaining scores do not exceed 1/32 inch. Oversize drums shall be stamped on outer face of drum, just above and between two studs on finished drums.
- (a) Replace leaking or damaged brake hoses and fittings.
 - (b) The parking/hand brake shall be complete with all linkage in a serviceable condition and properly adjusted.
 - (c) Parking/hand brake lining shall have at least 50 percent of original thickness remaining or they must be replaced. No evidence of grease or oil shall be on the parking brake lining.
 - (d) Replace wheel seals which show evidence of leakage. Replace wheel bearings and races which show evidence of overheating, galling, flaking, or other damage.
 - (e) Repair/Replace all air reservoir tanks showing evidence of leaks, cracks, or other damage. Repair/Replace air reservoir tank support brackets that are cracked, broken, or otherwise damaged.
 - (f) Replace brake lines if cracked or leaking. Brake lines will be of current diameter and length and free of kinks or flat sections. Fitting and nut shall not be distorted to the extent that they cannot be properly tightened.
 - (g) Replace front and rear glad hand grommets when they are hard, cracked, or missing.

(h) Replace front and rear glad hand ball valves that are leaking and not functioning properly.

(i) Repair/Replace air pack assembly, master cylinder and wheel cylinders if leaking and not operating properly.

(j) Repair/Replace the brake linkage and return spring if binding, broken or missing.

(k) Repair/Replace the air compressor if leaking and not operating properly.

The above procedures for repair/replacement can be found in TM 9-2320-260-20, TM 9-2320-260-34-1 and TM 9-2320-260-34P-1.

1. Tires, Wheels, and Splash Guards

(1) TEST PROCEDURES. Inspect tire inflation. Inspect for cupping, chunking, cuts, and cracks.

(a) Inspect wheels for cracks, breaks, and damaged mounting holes.

(b) Inspect for missing, damaged, or torn splash guards.

(2) PASS/FAIL. Each tire must have 4/32 inch or more of tread remaining and be in good serviceable condition. All tires on a vehicle shall be matched to provide proper performance and approximately equal life. Tires shall not show evidence of cupping or chunking. Tires shall not have cuts or cracks greater than one inch in length, 1/8 inch wide. Tires shall not have cuts or breaks, regardless of length or width, which extend to the fabric. Rubber separation or bulges on tire side walls are not acceptable.

NOTE

Permissible differences in outside diameter are as follows:

- a. Under 30 inches, 1/4 inch
- b. Thirty-forty inches inclusive, 3/8 inch
- c. Over 40 inches, 1/2 inch

All tires that do not meet these requirements shall be replaced.

(a) Wheels shall be free of cracks, breaks, and damaged mounting holes. Wobble shall not exceed 1/2 inch. Above measurement is obtained by measuring the difference between high and low points on wheels adjacent to the bead on the tire while wheel is mounted on vehicle. Front end

alignment and toe-in adjustment shall meet the standards prescribed in the technical manual. All wheels that do not meet these requirements shall be replaced.

- (b) Repair/Replace splash guards (front and rear) that are missing, damaged, or torn.

The above procedures for repair/replacement can be found in TM 9-2610-200-14, TM 9-2320-260-20, TM 9-2320-260-34P-1, TM 9 2320-272-24-1 THRU 4, and TM 9-2320-272-24P-1&2.

m. Steering Section

(1) TEST PROCEDURES. Inspect power steering pump, reservoir, and cap for leaks and proper function.

- (a) Inspect all power steering cylinder hoses for leaks.

- (b) Inspect steering gear for leaks, damage, wear, and proper function.

- (c) Inspect all power steering tubing for leaks, cracks, kinks, or flat sections.

- (d) Inspect upper and lower steering column assemblies for bends, breaks, cracks, and wear.

- (e) Inspect pitman arm, drag link, tie rod ends, and tube for bends, breaks, cracks, deformities, and excessive play.

- (f) Inspect steering wheel for cracks.

- (g) Inspect for proper alignment and lubrication.

NOTE

All steering cylinders shall be removed and new seal kits and springs installed 100 percent.

(2) PASS/FAIL. Repair/Replace the power steering pump, reservoir, and cap if leaking and not functioning properly. Replace power steering fluid 100 percent.

- (a) Replace the power steering hoses if leaking.

- (b) Repair/Replace the steering gear if damaged, worn, leaking, and not functioning properly.

- (c) Repair/Replace the power steering tubing if cracked, kinked, leaking, or flattened.

- (d) Repair/Replace the upper and lower steering column universal joints, splined couplings, and universal joint bearings that show rotary lost motion when rotated or shaken by hand.

(e) Replace drag link, pitman arm, tie rods, and tube that are bent, cracked, and deformed. The steering mechanism shall operate without binding or roughness on the drag link and steering linkage.

(f) Repair/Replace steering wheel as required.

(g) All vehicles shall be realigned and lubricated 100 percent.

NOTE

No welding or straightening (hot or cold) shall be permitted on steering gear controls. Steering wheels with minor cracks 1/8 of an inch wide or less which do not extend to the steering wheel core may be repaired by filling with a non-shrinking epoxy and sanded smooth.

The above procedures for repair/replacement can be found in TM 9-2320-260-20, TM 9-2320-260-34-2, TM 9-2320-260-34P-1, TM 9-2320-260-34P-2, TM 9-2320-272-24-1 THRU 4, TM 9-2320-272-24P-1&2, DMWR 9-2320-260, DMWR 9-2320-272, LO 9-2320-260-12, and LO 9-2320-272-12.

n. Propeller Shafts and Suspension Section

(1) TEST PROCEDURES. Inspect all propeller shafts, universal joints, and yokes for cracks or bends.

(a) Inspect shock absorbers for leaks and bushing deterioration.

(b) Inspect springs (front and rear) for sagging.

(c) Inspect torque rods.

(2) PASS/FAIL. Repair/Replace all propeller shafts that are cracked and bent. Repair/Replace universal joint sliding couplings and universal joint bearings that show rotary lost motion when rotated or shaken by hand. Replace yokes when cracked.

(a) Replace shock absorber when they have deteriorated or are leaking. Replace bushings if deteriorated.

(b) All spring wear pads shall be removed and rotated 180 degrees, however, sag can be measured by utilizing Go/NoGo gauge P/N 2000A251 which will eliminate this requirement. Repair/Replace all springs that have taken a permanent set and replace any broken leaf springs.

(c) Replace torque rods if separation of rubber from metal parts exceed 3/8 inch or rubber is not resilient.

The above procedures for repair/replacement can be found in TM 9-2320-260-34-2, TM 9-2320-260-34P-1, TM 9-2320-272-24P-1&2 and TM 9 2320-272-24-1 THRU 4.

o. Frame Section

(1) TEST PROCEDURES. Inspect frame, side rails, engine mounts, and cross members for loose mounting and broken welds.

(2) PASS/FAIL. Repair/Replace the frame, side rails, engine mounts, and cross members that have loose mounting and broken welds.

The procedures for repair/replacement can be found in TM 9-2320-260-34-2, TM 9-2320-260-34P-1, TM 9-2320-272-24-1 THRU 4, TM 9-2320-272-24P-1&2, TB 9-2300-247-40, and DMWR 9-2320-272.

p. Exhaust and Deep Water Fording System

(1) TEST PROCEDURES. Inspect the exhaust and deep water fording system for leaks, cracks, holes, and proper operation.

(2) PASS/FAIL. Repair/Replace the exhaust and deep water fording system that has leaks, cracks, and holes (other than drain). Repair/Replace the control cable if it does not function properly.

The procedures for repair/replacement can be found in TM 9-2320-260-20, TM 9-2320-260-34-2, TM 9-2320-260-34P-1, TM 9-2320-260-34P-2, TM 9-2320-272-24-1 THRU 4, and TM 9-2320-272-24P-1&2.

q. Front/Rear Bumpers, Cab Assembly, Glass, Windshield Wiper Assemblies, Pintles, and Towing Hooks

(1) TEST PROCEDURES. Inspect front bumper and rear bumperettes for dents, alignment, and cracks.

(a) Inspect cab assembly, battery box, tool box, pioneer tool bracket, gas can bracket, cargo storage box, and ventilation/heater for breaks, cracks, and proper function. Doors, hood, and hardware shall function as intended. Inspect hood and cab for damage. For M939 Series only, inspect hood insulation for sagging, deterioration, missing insulation. Remove all insulation from cab/floor and inspect for corrosion.

(b) Inspect glass for breaks and cracks.

(c) Inspect windshield wiper for proper function.

(d) Inspect pintles and towing hooks for security.

(e) Inspect mirror brackets for security.

(f) Inspect seat belts for proper operation.

(g) Inspect fire extinguisher bracket for serviceability.

(2) PASS/FAIL. Repair/Replace bumpers that cannot be properly aligned. Bumpers shall be mounted securely and free of cracks. Dents not to exceed 7/16 inch are acceptable when alignments are not affected.

(a) Repair/Replace cab assembly that has cracks, breaks, corrosion, and missing/damaged hardware. Repair/Replace the tool box, pioneer tool bracket, gas can bracket, and cargo storage box that has cracks, rust, breaks, and missing/damaged hardware. Dents, sags and bulges in the floor that do not exceed 7/16 inch are acceptable. Doors, hood, closures, and associated hardware shall function as intended. Indentations of no more than 1/2 inch are acceptable. The battery box shall be free of corrosion and acid deposits. Repair/Replace any ventilation/heater control cables, hoses, screens, and doors that are ripped, torn, and are not functioning properly. Repair/Replace the hood. For M939 Series only, repair/replace the hood insulation if damaged, sagging, deteriorated, or missing and replace cab/floor insulation 100 percent.

(b) Repair/Replace door and windshield glass that are cracked. Minor discoloration not more than 1-1/2 inches from the edge and on the right side of the windshield is acceptable. Scattered hairline scratches not within the driver's immediate vision are acceptable. Mounting and frames shall be secure. Seals shall be weather tight when this is the intended function. Slight weather checking on rubber seals is acceptable.

(c) Repair/Replace wiper motor that do not function properly. Replace wiper hoses that leak (minor weather checking is acceptable).

(d) Repair/Replace pintles and towing hooks that are not properly secured to vehicle. Securing cotter pin shall be attached and fastened properly. Towing hook shall be properly mounted. Pintles shall be lubricated and operate freely. End play in excess of 1/4 inch is not acceptable. Wear on pintle shaft or bushing, or both, to the extent of 1/8 inch is acceptable.

(e) Mounting shall be secure. Adjustment features shall function properly.

(f) Replace seat belts if they do not function properly.

(g) Replace fire extinguisher bracket if missing.

Note

If seat belts or fire extinguisher bracket are missing, install at this time.

The procedures for repair/replacement can be found in LO 9-2320-260-12, MI-2320-25/73, MI-2320-35/71, MI-11240-24/18B, TM 9-2320-260-20, TM 9-2320-260-34-2, TM 9-2320-260-34P-1, TM 9-2320-260-34P-2, LO 9-2320-272-12, TM 9-2320-272-24-1 THRU 4, and TM 9-2320-272-24P-1&2.

r. Backs/Frames

(1) TEST PROCEDURES. Inspect back/frames/and tracks for damage, sagging, broken springs, deteriorated frames and proper function.

(2) PASS/FAIL. Repair/Replace seat/back/frames/and tracks that have damaged, sagging, broken springs, deteriorated frames, and tracks that do not operate properly.

The above procedures for repair/replacement can be found in TM 9-2320-260-20, TM 9-2320-260-34-2, TM 9-2320-260-34P-1, TM 9 2320-272-24-1 THRU 4, and TM 9-2320-272-24P-1&2.

s. Cargo Body

NOTE

Ensure standard cargo beds are replaced with International Standards and Organizations (ISO) beds.

(1) TEST PROCEDURES. Inspect cargo body for rust, cracks, dents, sags, waves, and bulges on body and side panels. Inspect closures, end plates, hinges, and chain brackets.

(2) PASS/FAIL. Repair/Replace cargo body that has dents, sags, waves, and bulges on body and side panels. Dents, sags, waves, and bulges on body and side panels not exceeding 3/8 inch are acceptable. Nonstandard holes, 1/2 inch or less in diameter are acceptable. Closures, end plates, hinges, "T" bolts, and chain brackets shall be properly affixed and shall function as intended. Misalignment and damage of rub rails and tip rails on cargo body shall not exceed 3/16 inch per foot and not more than 1 inch in the entire area.

NOTE

Welded patches on body floors are acceptable when material used for patch is as thick as floor material and if patch is smooth and uniform with all excess splatter removed. Splices must fall on a supporting sill.

The above procedures for repair/replacement can be found in TM 9-2320-260-20, TM 9-2320-260-34-2, TM 9-2320-260-34P-1, TM 9-2320-272-24-1 THRU 4, TM 9-2320-272-24P-1&2, DMWR 9-2320-260, DMWR 9-2320-272, and MI-2320-30/52.

t. Rustproofing and Painting (Exterior/Interior)

(1) TEST PROCEDURES. Inspect vehicle for body damage, cleanliness, and rust.

NOTE

Rustproofing does not apply to processing of fuel tanks, radiator, engine, transmission, vehicle suspension, transfer, and axles.

(2) PASS/FAIL. Repair all body and rust damage before rustproofing vehicle. All vehicles shall be rustproofed 100 percent. The contractor shall undercoat the unexposed (under site) and shaded area (i.e. under fenders) of the vehicles/equipment inducted for either rebuild or IROAN in the following manner:

(a) Clean area with either steam or high pressure water to remove dirt and loosen corrosion.

(b) Treat affected (corroded) area(s) with phosphoric fog.

(c) Reclean.

(d) Apply MIL-C-81309 Type I, a water displacing corrosion inhibitor, to the affected area(s).

(e) Apply A-A-59295 Type II (Approved undercoating). Firewalls may be similarly treated to a minimum thickness of 3.5 mils. However, do not apply undercoating to components located on firewalls which are subject to heat transfer or are normally not painted.

Treat stages I through IV corrosion in isolated and hard to reach areas not normally undercoated in the following manner:

(a) Clean area with either steam or high pressure water to remove dirt and loosen corrosion.

(b) Brush a phosphoric acid solution on the affected areas. Remove corrosion manually, as required.

(c) Reclean.

(d) Prime and paint per latest edition of TM 4750-15/1 W/CH1-2& SUP.

All vehicles require repainting and shall be painted with CARC paint and have 3-CCP applied. The painting of tires is not authorized. The removal of paint over spray from tires received for IROAN is not required. Precautions shall be taken to prevent further paint over spray on tires.

The above procedures can be found in TB 43-0213, TC 9-510, TM 4750-15/1 W/CH1-2& SUP, and TM 4750-15/2 W/CH 1-2.

u. Hydraulic System (M939 Series Only)

(1) TEST PROCEDURES. Inspect hydraulic pumps, motors, power Take-off, reservoir, lines, winch control valve, hoses, and fittings for damage, rust, and leakage.

(a) Inspect the winch control and transmission power take-off control levers, cables, and linkage for proper operation.

(b) Inspect winch for evidence of leaks or misadjustments. Operate winch under load to insure proper operation.

(2) PASS/FAIL. Repair/Replace the hydraulic pumps, motors, power take-off, drum, rollers, reservoir, lines, winch control valve, hoses, and fittings that are damaged, rusted, or leaking.

(a) Repair/Replace the hydraulic pumps, motors, reservoir, lines, winch control valve, hoses, cylinders and fittings that are damaged, rusted, or leaking.

(b) Repair/Replace winch that is leaking or out of adjustment to ensure proper function.

NOTE

75 percent of cable length shall be inspected.

Replace the hydraulic fluid and filters 100 percent, all vehicles.

The procedures for repair/replacement can be found in DMWR 9-3830-501, TM 9 2320-272-10 W/CH1-4&A, TM 9-2320-272-24-1 THRU 4, TM 9-2320-272-24P-1&2, and DMWR 9-3830-501.

v. Winch Controls. (M809 Series Only)

(1) TEST PROCEDURES. Inspect the winch control/transmission power take-off control lever and linkage for proper operation. Inspect drum and rollers for nicks, burrs, rust and deformation.

(2) PASS/FAIL. Repair/Replace the winch control/transmission power take-off control lever that is damaged, corroded or missing. Repair/Replace drum and rollers that have nicks, burrs, rust or does not operate correctly.

The procedures for repair/replacement can be found in LO 9-2320-260-12, TM 9 2320-260-10 W/CH 1-3, TM 9-2320-260-34-2, TM 9-2320-260-34P-1, TM 9-2320-260-34P-2, and DMWR 9-3830-501.

w. Data Plates and Decals

(1) TEST PROCEDURES. Inspect vehicle for missing, damaged, and illegible data plates and decals.

(2) PASS/FAIL. Replace all data plates and decals that are missing and illegible. IROAN data plates shall be prepared by the DMA or contractor and contain the following information:

VEHICLE SERIAL NO. _____ REPAIRED IN
ACCORDANCE WITH 5-TON IROAN STANDARDS.

CONTRACTOR

DATE

ODOMETER READING AT TIME OF IROAN

NOTE

Odometers and hour meters on vehicles IROANed under provisions of this IROAN SOW shall not be turned back to zero.

Position IROAN Data Plate on the right hand side of dash (below the grab handle and attach with rivets).

The above procedures for repair/replacement can be found in TM 9 2320-260-10 W/CH 1-3, TM 9-2320-260-34P-1, TM 9-2320-260-34P-2, TM 9 2320-272-10 W/CH1-4&A, and TM 9-2320-272-24P-1&2.

3.2.3 Phase III Inspection, Testing, and Acceptance

a. Inspection, testing, and acceptance of the vehicle shall be conducted in accordance with the Final Road Test Check List, Appendix E, and the Final Acceptance Checklist, Appendix B. These completed checklists shall be provided to the government.

b. The contractor shall be responsible for conducting all required tests. The contractor shall ascertain that all necessary personnel are available, the Final Road Test Check List has been distributed, and that the test area has been cleared of all equipment parts, components, etc., not required for the test.

c. Acceptance Testing. Vehicles IROANed under the provisions of this SOW shall be accomplished in accordance with best commercial practices. (Acceptance Testing of Reconditioned Combat and Tactical Vehicles). Chassis dynamometer procedures and test standards outlined in TB 9-2300-245-50 (Wheeled Transport Vehicles: Chassis Dynamometer Procedures and Test Standards Under Simulated Load Conditions).

d. The contractor shall be responsible for correcting any deficiencies identified during testing. The MCLB Albany, representatives may require the contractor to repeat tests, or portions thereof, if the original tests fail to demonstrate compliance with the 5-Ton Series SOW.

e. Observation of fluid leaks under a vehicle while performing a walk around inspection immediately after road test does not make the equipment defective. This leakage is an indication that further investigation is required to determine location and cause. The important thing to remember is the fluid capacity when the criticality of the component is questioned. If the inspector is in doubt, he/she should request assistance from his/her immediate supervisor.

f. When equipment is standing idle (not energized) and the component is at ambient temperature, any drop that falls, oil or hydraulic fluid, shall be classified as a major defect.

3.2.4 Phase IV Packaging, Handling, Storage and Transportation (PHS&T)

a. The contractor shall be responsible for preservation and packaging of the items being repaired under the terms of this statement of work. Items scheduled for long term storage shall be in accordance with the level A requirements of ATPD 2241 and the applicable EPDS, i.e., 8736866 for M814, 8736987-2 for M927, 8750155 for M927A1, 8736987-1 for M928, or 8750156 for M928A1. EPDSs may be obtained from Materiel Management Division, Logistics Support Section (822-1), Suite 20320, 814 Radford Blvd., Albany, Ga. 31704-0320, Commercial telephone (229) 639-6786 or DSN 567-6786. Items scheduled for domestic shipment, immediate use or overseas shipment with the exception of Maritime Prepositioned Forces (MPF), shall be level "B", Drive-On/Drive Off. Items prepared for level "B", Drive-On/Drive-Off scheduled for overseas shipment shall have a label affixed which reads, "NOT FOR WEATHER DECK STOWAGE." Items scheduled for MPF shall be prepared to level B, MPF Modified Drive-Away.

b. The terms "Drive-on/Drive-off" and "MPF Modified Drive Away" are defined as follows:

(1) Drive On/Drive-Off - Batteries shall be hot and disconnected from vehicle electrical system. Terminals and leads shall be taped. Fuel tank shall be filled 1/4 tank full of JP5/8. The air intake system, exhaust and brake systems, drive-train and gauges shall be depreserved.

(2) MPF Modified Drive Away - Batteries shall be hot and connected to vehicle electrical system. Fuel tank shall be filled 3/4 full of JP5/8. The air intake system, exhaust and brake systems, drive-train and gauges shall be depreserved. Fire extinguisher bracket and seat shall be installed.

c. Marking for shipment/storage shall be in accordance with MIL-STD-129.

d. The Marine Corps will provide the contractor with the shipping address(es) for delivery of the repaired equipment. The contractor shall be responsible for arranging for shipment to the pre-designated site(s). The Marine Corps will be responsible for transportation costs associated with shipping the subject equipment to and from the contractor.

3.3 Configuration Control. The contractor shall apply configuration control procedures to established configuration items. The contractor shall not implement configuration changes to an item's documented performance or design characteristics without prior written authorization. If it is necessary to temporarily depart from the authorized configuration, the contractor shall prepare and submit a Request For Deviation. MIL-HDBK-61 (paragraph 4.3 and Table 4-9) and ANSI/EIA-649 (paragraph 5.3.4) provide guidance for preparing this configuration control document.

3.3 Electromagnetic Environmental Effects (E3) Procedures. The Contractor shall plan for and execute proper E3 control procedures when applicable in the IROAN process and shall use TI-5820-25/22 in conjunction with the detailed requirements specified in this SOW.

3.5 Quality Assurance Provisions. The Contractor shall provide and maintain a Quality System that, as a minimum, adheres to the requirements of ANSI/ISO/ASQC Q9002-1994, Quality System Model for Quality Assurance in Production, Installation, and Servicing. The performance of the contractor and the quality of work delivered, material provided and documents written shall be subject to in-process review and inspection by the MCLB Albany, representatives during contractor performance. Inspection may be accomplished at any work location. Authorized MCLB Albany, representatives shall be permitted to observe the work/task accomplishment or to conduct inspections at all reasonable hours. Acceptance Tests shall be held in-plant. Inspection by the MCLB Albany, representatives of all acceptance test plans and materials and associated lists furnished hereunder does not relieve the contractor from any responsibility regarding defects or other failures to meet contract requirements which may be disclosed prior to final acceptance. Failure of the contractor to promptly correct deficiencies discovered shall be reason for suspension of acceptance until corrective action has been accomplished.

The contractor shall have in place documented procedures and standards for quality assurance and the contractor's work shall be subject to in-process reviews and inspections for compliance with these procedures and standards by MCLB Albany, representatives. Noncompliance with procedures resulting in degraded quality of work may result in a stop-work order requiring action by the contractor to correct the work performed and to enforce compliance with quality assurance procedures or face contract termination. Notwithstanding such MCLB Albany, representative inspection, it shall be the contractor's responsibility to ensure that the entire system meets the performance requirements delineated and addressed in the 5-Ton SOW.

3.6 Government Furnished Equipment (GFE). MCLB Albany, will provide the following as GFE: Simplified Test Equipment for Internal Combustion Engines Reprogrammable (STE/ICE-R), NSN 4910-01-222-6589, 1 each.

3.6.1 GFE Accountability. The Management Control Activity (MCA), Marine Corps Logistics Bases, Albany, Georgia (MCA/Code 827-2) will coordinate assets in contractor's possession. The MCA will forward a GFE Accountability Agreement to the Contractor for signature to establish a chain of custody and property responsibilities for Marine Corps assets.

3.6.2 Government Furnished Materiel (GFM). None.

3.7 Rejection

3.7.1 Failure to comply with any of the specified requirements listed herein shall be reason for rejection by the MCLB Albany, representatives. The contractor shall, at no additional cost to MCLB Albany, provide the following:

- a. Develop an approach for modification or correction of all deficiencies.
- b. Upon approval of a documented approach, the contractor shall correct the deficiencies and repeat the verification until an acceptable compliance with acceptance test procedures requirements is demonstrated.

3.8 Contractor Furnished Materiel (CFM) The Marine Corps has adopted the Navy's procedures regarding Contractor Furnished Materiel (NAVICPINST 4491.2A). In the event Contractor Furnished Materiel (CFM) is required for repair parts, the contractor shall requisition through the DoD Supply System. DOD 4000.25-1-M, (MILSTRIP) Chapter 11, authorizes contractors to requisition through the DoD Supply System.

4.0 Reports. All report deliverables shall be submitted in hard copy to Commander (Code 835-2), Marine Corps Logistics Bases, 814 Radford Blvd. Suite 20320, Albany, Georgia 31704-0320, unless directed otherwise in a Contract Data Requirements List.

4.1 The contractor shall provide Monthly Progress Reports summarizing the progress and status of the IROAN Program.

4.2 The contractor shall provide a Parts Usage Report for each 5-Ton truck IROANed. This report shall be in the Contractors format and as a minimum, list by nomenclature, National Stock Number (NSN), Part Number, price and quantity of all parts replaced.

APPENDIX A

IRGAN PRE-INDUCTION INSPECTION SHEETS FOR 5 TON FAMILY VEHICLES		
DATE:		
MODEL:		
U.S.M.C. NO.	MILES	
FOR ORDER NO.	HOURS	
PRODUCTION NO.		
ENGINE NO.		
TRANSMISSION NO.		
INSPECTOR'S NAME	RADGE NUMBER	SHOP NUMBER
NOTE: THE FOLLOWING INSPECTION SHEETS ARE DIVIDED INTO SEVEN COLUMNS. THE INSPECTOR SHALL PLACE A CHECK IN THE COLUMN WHICH BEST DESCRIBES THE CONDITION OF THE ITEM BEING INSPECTED. FOR THOSE ITEMS THAT CANNOT BE INSPECTED FOR ANY REASON, THE INSPECTOR SHALL MAKE AN APPROPRIATE ANNOTATION IN THE REMARKS COLUMN. IF THE INSPECTOR FINDS A DEFECT THAT COULD CAUSE INJURY TO THE OPERATOR OR DAMAGE TO THE SHIP ITEM, TESTING WILL CEASE UNTIL THE DEFECT IS CORRECTED OR THE DECISION IS MADE TO INDUCT THE VEHICLE INTO THE IRGAN CYCLE.		

APPENDIX A

	STATUS	INSPECTION	SERV	ADJ	REPAIR	REPLACE	REMARKS
e. Fan belts for damage.							
f. Fan rotates freely.							
g. Radiator for leaks/cooling fins for damage and or obstructions. .							
h. Engine oil check cold must be between low and full.							
i. Radiator level must be 1" below filler neck.							
j. Transmission oil check cold must be at cold.							
k. Electrical connections for looseness/damage.							
l. Air line connections for looseness/damage.							
m. Power steering reservoir cold check to cold mark.							
n. Steering arms and linkages for sufficient lubrication.							
o. Power steering oil cooler.							
(1) Hoses, lines, and fittings for damage/looseness.							
(2) Proper mounting.							
(3) Leaks.							
(4) Cooling fins for damage and or obstructions.							
p. Cab mount biscuits for damage/looseness.							
3. OVER SIDE OF VEHICLE							
a. Side marker lamps for damage/security of mounting.							
b. Front wheel and tire.							
(1) Condition of tires (oux, gouges, & uneven/excessive wear).							
(2) Lug nuts for obvious looseness.							
c. Passenger door.							
(1) Door for ease of operation, fit and sealing.							
(2) Window for ease of operation and damage.							
(3) Side mirrors for damage and security of mounting.							

APPENDIX A

	SAFETY	ENVIRONMENT	SECURITY	AVAILABILITY	RELIABILITY	WARRANTY	REMARKS
4. <u>ROADSIDE OF VEHICLE</u>							
a. Intermediate/rear wheels and tires							
(1) Condition of tires (cuts, gouges, uneven, and excessive wear)							
(2) Lug nuts for obvious looseness							
(3) Mud flaps torn/missing/bent hardware							
(4) Fenders for security of mounting/bent/loose							
b. Side marker lamps for damage/security of mounting							
c. Fuel tanks and lines							
(1) Security of mounting							
(2) Fuel lines and fittings for damage/looseness							
d. Air intake stack for damage/security of mounting							
e. Air cleaner							
(1) Obvious damage							
(2) Hoses/clamps/fittings for looseness/damage							
(3) Rust cup installed							
f. Drivers door							
(1) Door for ease of operation/fit/sealing							
(2) Window for ease of operation/fit/sealing							
(3) Side mirrors for damage and security of mounting							
g. Steps for damage/security of mounting							
h. Cab mount brackets for damage/security							
i. Front wheel and tire							
(1) Condition of tires (cuts, gouges, and uneven excessive wear)							
(2) Lug nuts for obvious looseness							
5. <u>REAR OF CAB</u>							
a. Spare tire							
(1) Damage							
(2) Security of mounting							

APPENDIX A

	S E R V I C E	M I S S I O N	S U P P L Y	A D J U S T	R E P A I R	R E P L A C E	N O T E	R E M A R K S
d. Transfer case (8 point 5/2 in 1/2 in drive socket)								
(1) Mounting and security of components.								
(2) Check for proper level.								
(3) Input/output shafts for damage/looseness.								
e. Rear suspension								
(1) Hoses, lines, and fittings for damage/looseness.								
(2) Input/output shafts for mounting, lube.								
(3) Input/output seals for leaks.								
(4) Breather caps for freewheel.								
(5) Intermediate/rear axles for proper levels								
9. <u>TRUCK MOUNTS</u>								
a. Cargo bodies.								
(1) Side and end panels for damage.								
(2) Latches, hinges, and pins for damage.								
(3) Cargo tie downs for broken welds								
(4) Side racks for proper installation.								

NO-ACC-07250 (ILSD) 11-91

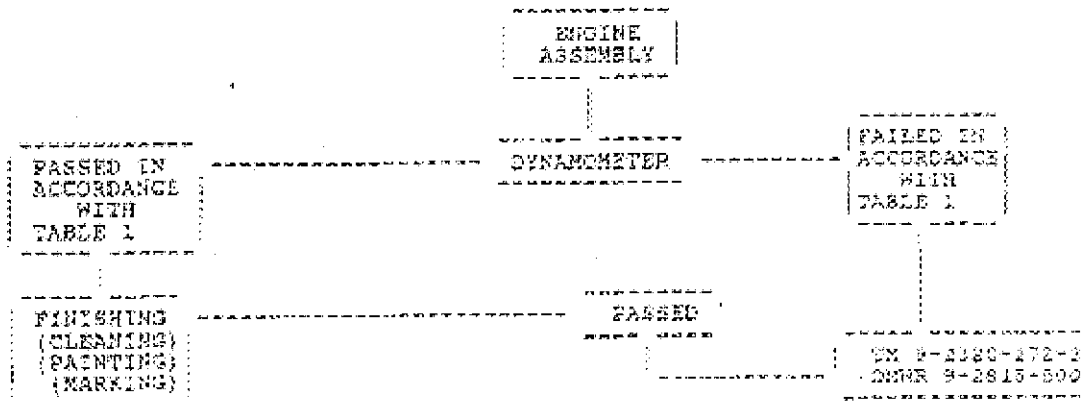
APPENDIX B

TYPE OF VEHICLE	MODEL	CHASSIS SERIAL NO	USMC NO	MILEAGE
5-TON TRUCK				
ACTIVITY	YEAR OF MANUFACTURE			

INSPECTION BY AUTHORIZED GOVT REP (SIGN & DATE)

GROUP	PART	SATISFACTORY	UNSATISFACTORY	GROUP	PART	SATISFACTORY	UNSATISFACTORY	COMMENTS
01	ENGINE			14	STEERING GEAR			
03	FUEL SYSTEM			15	FRAME			
03	TANK			15	TOWING CONNECTIONS			
03	INJECTORS			15	SHOCK ASSEMBLIES			
03	METER			15	SPRINGS			
03	PUMP			15	FENDERS			
03	ETHER START			15	HOOD			
04	MUFFLER & TAIL PIPE			15	BED			
05	RAMP & WATER PUMP			15	CAB			
05	RADIATOR			15	FLOOR			
06	BATTERY			15	GLASS			
06	INSTRUMENTS			15	INTERIOR TRIM			
06	GENERATOR			15	SEATS & UPHOLSTERY			
08	LIGHTS			15	BUMPER			
08	STARTER			15	BRUSH GUARD & GRILL			
08	REGULATOR			15	MIRRORS			
08	WIPERS			15	WIPERS & ARM			
07	TRANSMISSION			15	PAINT			
08	TRANSFER			15	FORGING KIT			
09	DRIVE SHAFT			15	WINCH			
10	FRONT AXLE			15	VEHICLE ACCESSORIES			
11	INTER AXLE							
11	REAR AXLE							
12	HAND BRAKE SYS							
12	SERVICE BRAKE SYS							
13	TIRES			ACCEPTANCE BY AUTHORIZED GOVERNMENT REPRESENTATIVE				
13	WHEELS							

APPENDIX C



IRCAN Pass/Fail Logic Chart - Engine Assembly

APPENDIX C

Acceptable Operating Specifications for NHC 330 Cummins Engine

Rated Power	Minimum 250 hp at 2100 rpm
Idle Speed	600 rpm
Minimum Engine Oil Pressure at Idle	10-12 psi at 225°F
Normal Engine Oil Pressure	35-70 psi at 1200 - 2100 rpm
Normal Oil Temperature	130-225°F
Normal Coolant Temperature	160-190°F
Normal Inlet Fuel Pressure	152-182 psi at 2100 rpm
Fuel Inlet Temperature	150°F maximum

APPENDIX C

DYNAMOMETER RUN-IN SCHEDULE
CUMMINS DIESEL IN-LINE 16; NAC260 - DYNAMOMETER TEST LOG (

Job Order No.:		Serial No.:		Date:				
Test Period	Time in Minutes	Engine RPM	Brake Load (H.P.)	Smoke Density	Oil Press	Oil Pump Temp	Water Temp	Fuel Rate
	5	1800	25					
	10	1875	125					
	15	2100	135					
	15	2100	203					
	15	2100	225					
	5	2100	340 - 55					
				TOTAL CHUCK RUN, TORQUE: Output 18 PM (551-685 corrected).				
	1	1800						
	10	1800	10					

TIG: Injector

- Normal lube oil pressure, 10 to 30 psi at 2300 at idle.
- Normal lube oil pressure, 20 to 70 psi at 1800 to 2100 rpm. (30 psi min)
- Lube oil pump temperature 1400 maximum at 1800 to 2100 rpm.
- Normal coolant temperature, 180°F to 200°F.
- Normal inlet fuel pressure 140 to 180 psi at 2100 rpm. Actual _____
- Fuel inlet temperature 1000 MAXIMUM. Actual _____
- Engine rpm: low idle 600; high idle, no load 2100-2115.

RUN-IN RECORD

Item No.	Test Results	Operator's Initials
1.	<u>Diesel Fuel Used</u> VV-F-800 _____	
2.	<u>Oil Used</u> MIL-L-21260 15W/400 _____	
3.	<u>Brake Horsepower</u> Corrected 180 at 2100 rpm _____ (235 lb. ft. min.)	

Engine Run-In Data Sheet (Sheet 1 of 2)

APPENDIX E

RUN-IN RECORD (COMBINE DIESEL IN-LINE (4) NOISE)

REMARKS:

1. If abnormal noise, describe conditions _____

 2. Smoothness at idle _____
 3. Engine malfunction _____

- Operator _____ Date _____ Inspector _____ Date _____

CORRECTION FACTORS

1. Horsepower Correction Data:
 - a. Barometric pressure in Hg: _____
 - b. Wet bulb temperature °F: _____
 - c. Dry bulb temperature °F: _____
 - d. Observed HP: _____
 - e. Corrected HP: _____
 - f. Torque output @ 1500: _____
 - g. Torque output corrected @ 1500: _____

APPENDIX D

HICKLIN
DYNAMOMETER RUN SHEET
MT-654 TRANSMISSIONSERIAL NO. _____ DATE _____
OPERATOR _____

Fill transmission to operating level with 82/HDC-10 weight oil, conforming MIL-L-2104C.

Set test stand drive unit for clockwise rotation.

Set input at 1200 rpm, closed throttle modulator setting, output unloaded, transmission through all ranges to fill clutches.

With output stalled, full throttle modulator setting, drive 4(5) range, sta transmission until fluid temperature reaches 170°F.

Check and reestablish correct fluid level.

Hicklin Dynamometer Run Sheet (Sheet 1 of 2)

APPENDIX D
DC-65A6C TRANSMISSION COMPONENTS RUN SHEET

Test	RPM	Throttle	Output	Specified Reading: Main Pressure (200-315 psi) Reverse Signal Pressure (240-315 psi) Reverse Flow (6.8 gpm min.) Lube Pressure (exhaust only) (15 psi)	Actual
Speeder	2000/20	Full	Unloaded		
Test	RPM	Throttle	Range	Output	Input 200 rpm (10, 15, 1000) Minimum at Input Speed (1500) Required RPM-200 psi
Roll	1200/30	Full	4(5)	Stall	Actual
Test	RPM	Throttle	Range	Output	Actual
Roll	600/30	Closed	4(5)	Minimum 400 psi	Actual
Test	Range	Throttle	Output	Shift Point	Req
Roll Throttle	4(5)	Full	Loaded	0-1	335-630
Upshift			500-1000	40-16	650-830
				1-2	910-975
				2-3	1170-1180
				3-4	1504-1675
Test	Range	Throttle	Output	Shift Point	Req
Closed Throttle	4(5)	Closed	Loaded	4-7	845-1360
Downshift			500-1000	3-2	107-900
				2-1	535-690
				1-10	460-590
				1-1	225-215
Test	Range	Throttle	Output	Shift Point	Req
Downshift	4(5)	Full	Loaded	4-3	1340-2010
Upshift			500-1000	3-2	1360-1555
				2-1	970-1180
				1-1	475-595

NOTE: Reduce input speed with main gear downshift.

23 January 2001

APPENDIX E

FINAL MORE TEST CHECK LIST
ATTACHMENT NO. 1

ALL SAFETY CHECKS MUST BE SATISFACTORILY COMPLETED PRIOR TO ROAD TESTS.

IF NECESSARY, BEFORE PERFORMING ALL TESTS AND CHECKS, Wipe DOWN COMPONENTS WHERE GREASE, OIL, OR DIRT COULD POSSIBLY FORM.

THE FOLLOWING ITEMS SHALL BE CHECKED DURING THE VEHICLE STATIC TEST
WITH THE VEHICLE ENGINE OPERATING:

LOW AIR LIGHTBUESSER WILL REMAIN ON OXYL. SYSTEM PRESSURE REACHES 60 PSI

DO NOT JUMP START VEHICLE WITH LIGHT SWITCH ON.

[illegible]

1. Check the following gauges for correct readings.
 - a. Tachometer reading 500 + 50 rpm at idle
 - b. Engine oil pressure, minimum of 10 psi at idle.
 - c. Low air filter/light.
 - d. Air cleaner restriction indicator
 - e. Battery gauge registers in the green
 - f. Fuel gauge registers equivalent to tank level
 - g. Engine coolant 175 to 195° F (after road test)
 - h. Transmission oil temperature 170 to 190° F (after road test)
 - i. Primary air pressure 90 to 125 PSI
 - j. Secondary air pressure 90 to 115 PSI
2. Cab controls (can be done on road test)
 - a. Windshield washer
 - b. Windshield wipers left and right
 - c. Heater/Defroster fan
 - d. Heater ducts for air
 - e. Defroster ducts for air
 - f. Transfer case
 - (1) Shift lever for ease of operation
 - (2) Operates in high and low.

2020年12月1日

CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved

OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0704-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please DO NOT RETURN your form to the above address. Send completed form to the Government Issuing Contracting Officer for the Contract PR No. listed in Block E.

A. CONTRACT LINE ITEM NO.		B. EXHIBIT		C. CATEGORY: TOP _____ TM _____ OTHER <input checked="" type="checkbox"/>	
D. SYSTEM/ITEM M814/M927/M927A1/M928/M928A1		E. CONTRACT/PR NO.		F. CONTRACTOR	
1. DATA ITEM NO. B001	2. TITLE OF DATA ITEM Request For Deviation			3. SUBTITLE Configuration Management	
4. AUTHORITY (Data Acquisition Document No.) DI-CMAN-80640C		5. CONTRACT REFERENCE SOW 3.3		6. REQUIRING OFFICE MCLBA (851)	
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED	10. FREQUENCY ASREQ	12. DATE OF FIRST SUBMISSION SEE BLK 16	14. DISTRIBUTION	
8. APP CODE A		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION	a. ADDRESSEE	b. COPIES
				Draft	Final Reg Repro
16. REMARKS Blk 4 - Contractor format is authorized. Blks 10 & 12 - RFDs shall be submitted to obtain authorization to deliver nonconforming material which does not meet prescribed configuration documentation. RFDs will be reviewed and disposition determined within 30 calendar days upon receipt by the Government. RFDs shall be submitted via e-mail to the following address: mbmatcomconfigmngmnt@matcom.usmc.mil Distribution Statement A: Approved for public release, distribution is unlimited				MCLBA (851-2)	0 1 0
				15. TOTAL	0 1 0

17. PRICE GROUP

18. ESTIMATED
TOTAL PRICE

G. PREPARED BY <i>William L Bradley</i>	H. DATE JAN 12 2001	I. APPROVED BY <i>Jeffrey Kewer</i>	J. DATE 1/18/01
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